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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/567,118	12/13/2006	Frank Uldall Leonard	0859-0114PUS1	2920
2252	7590	12/16/2009	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			ABEBI, DANIEL DEMELASH	
PO BOX 747			ART UNIT	PAPER NUMBER
FALLS CHURCH, VA 22040-0747			2626	
NOTIFICATION DATE		DELIVERY MODE		
12/16/2009		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

Office Action Summary	Application No. 10/567,118	Applicant(s) LEONHARD, FRANK ULDALL
	Examiner Daniel D. Abebe	Art Unit 2626

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 03 February 2006.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-15 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-15 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____

5) Notice of Informal Patent Application

6) Other: _____

DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority based on an application filed in Denmark on 8/06/2003. It is noted, however, that applicant has not filed a certified copy of the 2003 01136 application as required by 35 U.S.C. 119(b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marley (4,783,807) in view of Olsen et al. (2,971,058).

As to claim 8, Marley teaches a method for analyzing an input signal having an input frequency-bandwidth, the method comprising the steps of:

providing at least one frequency-bandwidth limited portion of the input signal, determining, for each of the at least one frequency-bandwidth limited portion of the input signal, durations of a predetermined time and signal magnitudes (amplitude),

and determining a distribution of the signal magnitudes (the amplitude characteristics) as a function of their durations of the predetermined time (Figs.1-2; Col.4, lines 1-48; Col.4, lines 58-66; Col.8, lines 40-48; Col.10, lines 24-45; Col.17, lines 65-5; Claim 1).

Its noted that Marley doesn't explicitly teach about the period where the analysis is made.

Olson teaches a method for analyzing speech signal using the amplitude distribution of the signal as a function of duration where the signal period of the duration analyzed includes half period for identifying the signal (Figs.1, 2, 4, 13A-B; Col.2, lines 21-54; Col.3, lines 24-40; Claim 12).

The combination of the two analogous teachings would be obvious to one of ordinary skill in the art at the time of applicant's invention for the purpose of improving the determination of the signal.

As to claim 9, Marley teaches wherein the signal magnitudes are determined as peak-to-peak values (Fig.7, claim 1).

As to claim 10, Marley teaches rectifying portion of the input signal, and determining the signal magnitudes as the signal magnitude between two consecutive zeroes (Col.13, lines 10-15; Figs 4-6).

As to claim 11, Olsen teaches a predetermined period including one half period as addressed above.

As to claim 12, both Olsen and Marley teach where the analysis is used for identifying vowels in speech signal.

As to claim 13. Olsen teaches wherein the as least one frequency-bandwidth limited portion has a bandwidth of at least one octave (Figs.1-2).

As to claim 14, Olsen teaches where the analyzed signal as a function of their durations is displayed and used for the controlling of a condition of an industrial product,

suggesting the displayed signal result could also be used to identify different conditions (abstract; Col.1, lines 45-50).

As to claim 15, Olsen teaches where the analyzed signal as a function of their durations is used for identifying a condition of a physiological signal in a human (Col.2, lines 25-35).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Abebe whose telephone number is 571-272-7615. The examiner can normally be reached on monday-friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on 571-272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Daniel D Abebe/

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